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Office Memorandum • UNITED STATES GOVERNMENT

TO : The Files

DATE: 2 July 1957

FROM :

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SUBJECT: RD-71

1. On 26 June I visited the plant of the to determine status of the transistor receiver.

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2. It appears that design work has been finalized on all stages of the receiver. Testing and final packaging is the only work remaining prior to delivery of the units. It is expected that final delivery will be made in approximately one month.

3. The subject of incorrect calibration was discussed. had been advised of this problem several months ago, and since that time has been conducting an investigation to determine the causes of this calibration drift. It appears that much of the problem is caused by aging of the cement used in setting the adjustments of the trimmer condenser and the adjustment of the profile cam. Experiments have determined that there is a rather rapid drift of calibration in the first month following complete assembly of the tuner. Thereafter, the drift is at a much lower rate, and after about two months there seems to be no drift at all. On this basis, has suggested that any future tuners be aged before any final adjustments are made; and further, they have suggested a different type of cement. One of the factors noted here is that the error in calibration is linear across the band and does not vary percentage-wise with frequency. It is therefore possible to make corrections for this error by compensating in vernier adjustment. Future vernier dials will be so made that this adjustment may be readily accomplished.

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4. One of the three remaining re-worked tuners in the 3 to 12 mc range was brought back and has been delivered to the R&D Laboratory for evaluation. The first of a 12 to 30 mc tuners is due to be delivered before the end of the month. This will also be delivered to the R&D Laboratory for evaluation.

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